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Abstract of the Disclosure

METHOD AND APPARATUS FOR MAKING A TWO PIECE
UNITARY PISTON

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Past pistons have been susceptible to reduced longevity due to increased forces of combustion thereon during operating cycles of an engine. The present two piece unitary piston increases the longevity of pistons used with increased forces of combustion. For example, a head member has a crown portion defining a ring band portion having a bottom surface and a support portion. And, a skirt member defines a ring band support surface and a top surface. The head member and the skirt member have a preestablished material strength being generally the same. The head member and the skirt member are joined by an inertia welding process. The force of combustion acting on the crown portion is resisted by the ring band support surface being in contacting relationship with the bottom surface. Thus, the skirt member structure supports and resists the bending moment of the combustion forces on the head member.

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09/16/74/44

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